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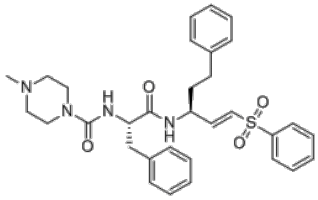
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	K777
Cat. No.	:	PC-73032
CAS No.	:	233277-99-1
Molecular Formula	:	$C_{32}H_{38}N_4O_4S$
Molecular Weight	:	574.74
Target	:	Cathepsin
Solubility	:	10 mM in DMSO



Biological Activity

K777 (K11777, S-001, SLV213) is a highly potent, irreversible, covalent inhibitor of mammalian **cathepsin L** and other cysteine proteases of clan CA.
K777 was originally developed as an inhibitor of cathepsin S, but later showed promise as an antiparasitic agent.
K777 inhibits C. parvum growth in mammalian cell lines in a concentration-dependent manner, rescues mice from a lethal Cryptosporidium parvum infection
K777 blocked the entry of pseudovirus forms of SARS-CoV-1 and MERS into Vero E6 or HEK293 cells, likely due to inactivation of cathepsin L (CTSL) on cell surfaces and/or within endosomes.
K777 reduced SARS-CoV-2 viral infectivity in several host cells: Vero E6 (EC50< 74 nM), HeLa/ACE2 (4 nM), Caco-2 (EC90 = 4.3 μM), and A549/ACE2 (<80 nM).

References

Mellott DM, et al. ***ACS Chem Biol.*** 2021 Apr 16;16(4):642-650.

J T Palmer, et al. ***J Med Chem.*** 1995 Aug 18;38(17):3193-6.

Ndao M, et al. ***Antimicrob Agents Chemother.*** 2013 Dec;57(12):6063-73.

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